

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 :

C12N 15/00, 5/10, A01K 67/027, G01N
33/50, 33/68 // C12N 15/33, C07K 14/025,
C12N 15/12, C07K 14/475, 14/495

A1

(11) International Publication Number:

WO 97/39117

(43) International Publication Date:

23 October 1997 (23.10.97)

(21) International Application Number:

PCT/GB97/01063

(22) International Filing Date:

17 April 1997 (17.04.97)

(30) Priority Data:

9607953.8

17 April 1996 (17.04.96)

GB

(71) Applicant (for all designated States except US): THE UNIVERSITY OF LIVERPOOL [GB/GB]; Senate House, Abercromby Square, Liverpool L69 3BX (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): RUDLAND, Philip, Spencer [GB/GB]; Dept. of Biological Sciences, The University of Liverpool, Liverpool L69 3BX (GB). BAR-RACLOUGH, Barry, Roger [GB/GB]; Dept. of Biological Sciences, The University of Liverpool, Liverpool L69 3BX (GB). KILTY, Iain, Charles [GB/GB]; Dept. of Biological Sciences, The University of Liverpool, Liverpool L69 3BX (GB). DAVIES, Barry, Robert [GB/GB]; Addenbrooks Hospital, P.O. Box 238, Cambridge CB2 2QQ (GB). SCHMIDT, Guenter [DE/GB]; 13 Station Road, Cambridge CB1 2JB (GB).

(74) Agent: W.P. THOMPSON & CO.; Coopers Building, Church Street, Liverpool L1 3AB (GB).

(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).

Published

With international search report.



(54) Title: **CONDITIONALLY IMMORTALISED CELL LINES DERIVED FROM TRANSGENIC ANIMALS**

(57) Abstract

The invention relates to mammalian cell lines and transgenic mammals. More particularly, it relates to a method for producing a rat cell line, a method for producing a transgenic rat, a transgenic rat, a rat cell line, cells and tissue obtained therefrom and uses therefore. The cell line derived from a transgenic mammal comprises: (i) a conditional oncogene, transforming gene or immortalising gene or a cell cycle affecting gene; and (ii) a cell type specific promoter. They include a neuronal cell line in which the cell type specific promoter is an NF-L gene promoter, and a mammary cell line in which the cell type specific promoter is a MMTV gene promoter. The conditional oncogene, transforming gene or immortalising gene is preferably a SV40tsA58 gene.